

CLAIMS

What is claimed is:

- 5 1. A plastic lens refinishing method comprising the steps of: providing an automobile with abraded headlight lenses mounted thereon; and for each said headlight lens:
 - a) sanding with a fine grit sanding disc, over an exterior surface of the lens with continuous lateral motions of the disc on the exterior surface and with an oscillating motion of the disc, while flushing the exterior surface with water to prevent the exterior surface from melting, for exposing a non-abraded surface of the lens; halting the sanding when the flushing water turns clear;
 - 10 b) sanding with a ultra fine grit sanding disc, over the exterior surface of the lens with continuous lateral motions of the disc on the exterior surface and with an oscillating motion of the disc, while flushing the exterior surface with water to prevent the exterior surface from melting; halting the sanding when the lens appears clear;
 - c) sanding with an ultra-ultra fine grit sanding pad, over the exterior surface of the lens until limited access corners of the lens are clear, while flushing the exterior surface with water to prevent the surface from melting;
 - 15 d) polishing the exterior surface with a buffing compound until a high gloss is achieved; and
 - e) coating the exterior surface with a transparent ultraviolet hardenable coating material, and hardening the coating material by exposure to an ultraviolet light source.
- 20 2. The method of claim 1 wherein the fine grit and the ultra-fine grit sanding discs are approximately 3 inches in diameter and provide 7 radially oriented and equally spaced relief notches therein.
- 25 3. A refinishing tool apparatus comprising: a drive means and a driven means, the drive means and the driven means joined by a flexible drive shaft so that the drive

means is able to control the driven means; the drive means providing an electric motor joined with the drive shaft for continuous rotation thereof; the driven means providing a receiver for interconnection with the drive shaft, the drive shaft terminating with an eccentric disc, the disc engaged for imparting oscillating motion to a sanding disc drive train; a sanding disc receiver disc joined to the drive train.

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4. The apparatus of claim 3 further comprising a foam pad engaged with the sanding disc receiver disc.